

Enhancing development agility without increasing costs

About CBRE

CBRE Group Inc., headquartered in Dallas and listed on the NYSE, included in the Fortune 500 and S&P 500, is the world's largest real estate services and investment company, serving clients in over 100 countries, including more than 90% of the Fortune 100. With over 115,000 professionals in more than 100 countries, CBRE has been present in Spain since 1973, offering real estate services through 9 offices (Madrid, Barcelona, Bilbao, Valencia, Alicante, Malaga, Seville, Zaragoza, and Palma de Mallorca).

CBRE has committed to transitioning from an on-premise to a 100% Cloud-based architecture.

PUE has contributed by providing technological solutions that expedite development times without increasing costs.

The challenge

Data is the key to the digital transformation of the real estate world. Therefore, CBRE Spain has been investing in cutting-edge data lifecycle management technologies for several years.

A central goal of this initiative is to have a single, centralized repository for ingesting, processing, modeling, and serving data relevant to the real estate market.

Scalability is crucial in the new digital world, prompting CBRE Spain to propose to PUE an end-to-end Data Warehouse project that allows data exploitation from any company area.

The CBRE Spain and PUE team faced several challenges during the conception, execution, and exploitation of the Data Warehouse:

- 1** | The data explosion context required having a viable minimum product functional in less than 5 months.
- 2** | Amid a global pandemic, teams had to work 100% remotely.
- 3** | As a global company, CBRE demands very high standards of quality, security, and scalability that govern all project specifications, from architecture to continuous integration.

The solution

The modernization of the Data Warehouse entailed evolving from an on-premise architecture to a 100% Cloud architecture. The project encompassed technical, operational, and team organization aspects, both in technology and data.

CBRE Spain and PUE opted for Open Source technologies that speed up development times without increasing costs, ensuring the ability to meet current and future business needs with the most innovative technology, without requiring additional licensing.

The project used Scrum and DevOps methodologies with continuous integration and deployment to improve time-to-production and enhance collaboration and cooperation among all teams working on this platform.

Technologies applied

- Clou5
- Kubernetes2
- CI/CD
- Spark

PUE services

- Assessment, architecture design, and definition of Open Source tools to implement.
- Installation of tools and platform configuration.
- Integration with the Data Warehouse.
- Development projects for integrating the DevOps layer, transformation, and treatment of ETLs with Spark.
- Enablement Training for CBRE's Administration and Development teams to skill up in system use and administration and integrated platform tools.

MADRID

Arregui y Aruej, 25-27 | 08007 Madrid
T. 91 443 51 21

BARCELONA

Diagonal, 98-100 | 08019 Barcelona
T. 93 206 02 49

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